

Industry Day - Facility Overview

**Corrosion Control De-Paint
Paint Facilities
Robins Air Force Base**



**Burns & McDonnell Engineering Co., Inc.
January 29, 2003**

Procurement

- *Design/Build RFP*
- *Two Step Procurement*
 - ◆ *First Step - Qualifications*
 - ◆ *Second Step - Selection of 1 firm*
- *One RFP for both Facilities*
- *Base bid - De-Paint Building*
- *Options for De-Paint Equipment, Paint Facility and Paint Eq.*

De-Paint Hangar

■ **Goal and Objective**

◆ *Provide a WORLD-CLASS, INTEGRATED facility for depainting C-5 aircraft. This includes provisions for office/administration areas, break room, dressing rooms, blasting media processing, equipment storage and cleaning rooms for user material, mechanical systems and electrical systems.*

De-Paint Hangar

■ **Process**

- ◆ *C-5 Aircraft is jacked and leveled so that gear and hatches can be closed.*
- ◆ *Aircraft is masked.*
- ◆ *Aircraft is blasted with media to strip aircraft*
- ◆ *Aircraft is de-masked and cleaned*
- ◆ *Aircraft is unjacked and removed from hangar*

De-Paint Hangar

■ *Facility Requirements*

- ◆ *Square Footage - 9720 Square Meters*
- ◆ *Process Air Flow - Temperature*
- ◆ *C-5 Aircraft Access Equipment (Teleplatforms and Tail Stands)*
- ◆ *Specialized Systems:*
 - *Dry Media Stripping System*
 - *Media Recovery System*
 - *Breathing air*
 - *400 Hz*

Paint Hangar

■ **Goal and Objective**

◆ *Provide a WORLD-CLASS INTEGRATED facility for the wash-etch-alodine and painting processes for the C-5 aircraft. Provisions for office/administration areas, break/dressing rooms, chemical storage and mixing, equipment storage and cleaning rooms, mechanical and electrical systems.*

Paint Hangar

■ *Process*

- ◆ *C-5 Aircraft is jacked and leveled so that gear and hatches can be closed.*
- ◆ *Aircraft is washed and rinsed.*
- ◆ *Aircraft is etched*
- ◆ *Aircraft is chromate conversion coating*
- ◆ *Aircraft is primed with TT-P-2760 Koroflex*
- ◆ *Aircraft is painted with MIL-C-85285 Polyurethane*
- ◆ *Aircraft is cured, tested and then removed.*

Paint Hangar

■ *Facility Requirements*

- ◆ *Square Footage - 10,215 Square Meters*
- ◆ *Laminar Air Flow - Humidity and Temperature*
- ◆ *C-5 Aircraft Access Equipment (Teleplatforms)*
- ◆ *Specialized Systems:*
 - Acid Storage Distribution
 - Wash, rinse and Alodine
 - Breathing air
 - 400 Hz

Project Site

